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Q3

Q4

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SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of	Electronics and	Communication	Engineering
B. Tech.	(ECE/) Minor-1	Examination (O	dd) 2019-20

Entry No:

7BEC0 30/Sep/2019

Total Number of Pages: [01]

Total Number of Questions: [04with sub-part]

Course Code: ECE4190

Time Allowed: 1.5 Hours

Max Marks: [30]

ructions / NOTE

Instructions / NOTE					
i. Attempt All Questions.					
ii. Assume an appropriate data / information, wherever necessary / missing.					
Section – A					
Answer the following:					
What are the important principles behind different Multimedia information					
representation?	-				
b. Describe in detail QOS Solutions for Multimedia Applications. list their strengths	3				
and short comings clearly					
c. Describe in detail the meaning of Gatekeeper w.r.t. to Multimedia communication.	3				
List their shortcomings, strength, its application areas and compulsory services it					
can provides					
2) List and describe in brief categories of Multimedia Application with examples.					
Network QoS Vs Application QoS.					
Explain the JPEG and JPEG 2000. Differences along with the block diagram					
d) What do you mean by Orthogonal Transforms?					
LZW code with example					
Section – B					
	7				
Assuming a complex signal with two signals x1 and x2, whereas x1 has bandwidth from					
50Hz to 10 KHz and that of x2 is 15 to 20 KHz. Digitizer based on Nyquist criteria with					
123 bits /sample for x1 and 16 bits/sample for x2 is utilized. Calculate the total memory					
required for storing the x1 and x2 on in the computer for the length of 10 minutes.					
b. The characters a to h have the set of frequencies based on the first 8 Fibonacci numbers as	2 3				

 $follows: a:1,b:1,c:2,d:3,e:5,f:8,g:13,h:21 \ . \ A \ Huffman \ code \ is \ used \ to \ represent$ the characters. What is the sequence of characters corresponding to the following code

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Date:	3/Dec/20)19									Total Number of O

Course Title: Multimedia Communication

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Time Allowed: 3 Hours

	Time Allowed: 3 Hours Max Marks: [5]	0]	
	Attempt All Questions Assume on appropriate data / S		
/	Attempt All Questions. Assume an appropriate data / information, wherever necessary / missing. Section – A		20
X.	Answer the following:		10
	J.A video consists of a sequence of	1*10	
	2. If frames are displayed on screen fast enough, we get an impression of		
	3. H.323 uses G.71 or G.723.1 for		
	A.In Video Compression, an independent frame that is not related to any other frame is		
	called		
	5.RTP uses a temporary even numbered		
	6. In Joint Photographic Experts Group (JPEG), a gray scale picture is divided into blocks		
	of size JAn Real Time Interactive Audio Video, conferencing requires two way communication		
	between		
	8.In Real Time Interactive Audio Video, Jitter is introduced in real-time data by delay		
	between		
	9.1n Real Time Interactive Audio Video, data are stored in buffer at a possibly variable		
	19. In temporal compression, redundant frames are		10
2.	Write Short Notes	1*10	10
	1. Multimedia applications		
	2. SMIL		
	3. Video conferencing benefits and barriers		
	A. Multicast		
	Synchronization Specification		
	6. MPEG 1,2		
	JPEG Vs JPEG 2000 Wiles Compression Principle		
	8. Audio and Video Compression Principle		
	9. Network QoS and application QoS 10. Multimedia Networking: Goals and Challenges Section - B		
	Section – B	200	31
	Describe in detail Synchronization in Multimedia Systems.	3*3	4
X	Describe in detail Sylicinolization in the for Multimedia Syncronisation.		
	b. Explain the reference model for Multimedia Syncronisation.		
	c. Explain Synchronization in a Distributed Environment		
84.	Explain in Detail Explain in Detail Output Detail Explain in Detail	3*4	1.
	Transmission of multimedia content over a seguinary		
	Passurae Reservation Protocol and the Ferr		
	RSVP Resource Reservation RTP Real-time Transport Protocol RTP Real-time Streaming Protocol		
	RTP Real-Time Streaming Protocol RTSPReal-Time Streaming Protocol		
	RTSPReal-Time Streaming of RTSP		4.
	Explain DCT2 and IDCT2 with an example, show that the		
QX	Explain DCT2 and IDCT2 with all example: 578 8*8 has maximum information in its top left corner		